

Quiz1 (out of 10)

✓ Good

9
10

Student name:

.....Student ID#:

..... Section:1

NOTES:

1. Show all details of your answer.
2. Return a clean copy (without draft).

Exercise:

Consider the following real world problem: "hospital staff management".

1. Briefly explain how this is an Operation Research problem?

1- ~~we~~ we have a decision to make & there is a number of customer to provide them a service

2- we have to optimize a performance & Maximize number of customers, minimize the waiting hours. (Maximization or Minimization)

3- there's a limited Resources & we're limited by the Number of working hours.

2. If you were an operation research engineer, how would you solve the above problem?

1- decision variable & how many patients (customer) to provide him a service for each Doctor (employee)

2- objective function (mathematical function) & Minimize the waiting hours for each customer

3- Constraints & Number of working hours for each employee

Q1 Answer

Q2 answer

- 1 - Defining the problem & gathering Data
- 2 - formulating a mathematical Model
- 3 - Deriving the Solutions for the model used
- 4 - Testing the model
- 5 - ~~A~~ Preparing the model to Apply
- 6 - Implementation

You have to detail your answer.